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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	AUG 10	Time limit for inactive STN sessions doubles to 40 minutes
NEWS 3	AUG 18	COMPENDEX indexing changed for the Corporate Source (CS) field
NEWS 4	AUG 24	ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 5	AUG 24	CA/CAplus enhanced with legal status information for U.S. patents
NEWS 6	SEP 09	50 Millionth Unique Chemical Substance Recorded in CAS REGISTRY
NEWS 7	SEP 11	WPIDS, WPINDEX, and WPIX now include Japanese FTERM thesaurus
NEWS 8	OCT 21	Derwent World Patents Index Coverage of Indian and Taiwanese Content Expanded
NEWS 9	OCT 21	Derwent World Patents Index enhanced with human translated claims for Chinese Applications and Utility Models
NEWS 10	NOV 23	Addition of SCAN format to selected STN databases
NEWS 11	NOV 23	Annual Reload of IFI Databases
NEWS 12	DEC 01	FRFULL Content and Search Enhancements
NEWS 13	DEC 01	DGENE, USGENE, and PCTGEN: new percent identity feature for sorting BLAST answer sets
NEWS 14	DEC 02	Derwent World Patent Index: Japanese FI-TERM thesaurus added
NEWS 15	DEC 02	PCTGEN enhanced with patent family and legal status display data from INPADOCDB
NEWS 16	DEC 02	USGENE: Enhanced coverage of bibliographic and sequence information
NEWS 17	DEC 21	New Indicator Identifies Multiple Basic Patent Records Containing Equivalent Chemical Indexing in CA/CAplus

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:41:37 ON 09 JAN 2010

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 16:42:22 ON 09 JAN 2010
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STRUCTURE FILE UPDATES: 8 JAN 2010 HIGHEST RN 1201769-11-0
DICTIONARY FILE UPDATES: 8 JAN 2010 HIGHEST RN 1201769-11-0

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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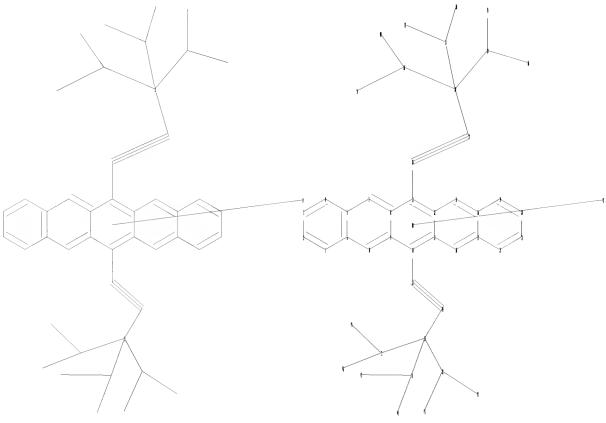

chain nodes :
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43
44 45 46 47
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
chain bonds :
11-26 14-23 23-24 24-25 25-32 25-33 25-34 26-27 27-28 28-29 28-30 28-31
29-35 29-36 30-39 30-40 31-37 31-38 32-41 32-42 33-45 33-46 34-43 34-44
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13
12-15 13-14 13-18 15-16 16-17 16-19 17-18 17-22 19-20 20-21 21-22
exact bonds :
11-26 14-23 23-24 24-25 25-32 25-33 25-34 26-27 27-28 28-29 28-30 28-31
29-35 29-36 30-39 30-40 31-37 31-38 32-41 32-42 33-45 33-46 34-43 34-44
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13
12-15 13-14 13-18 15-16 16-17 16-19 17-18 17-22 19-20 20-21 21-22

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS
36:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS
44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:Atom

L1 STRUCTURE UPLOADED

=> D L1
L1 HAS NO ANSWERS
L1 STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL
FULL SEARCH INITIATED 16:43:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 482 TO ITERATE

100.0% PROCESSED 482 ITERATIONS (4 INCOMPLETE) 9 ANSWERS
SEARCH TIME: 00.00.03

L2 9 SEA SSS FUL L1

=> FILE CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 191.54 191.76

FILE 'CAPLUS' ENTERED AT 16:43:12 ON 09 JAN 2010
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FILE COVERS 1907 - 9 Jan 2010 VOL 152 ISS 3
FILE LAST UPDATED: 8 Jan 2010 (20100108/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

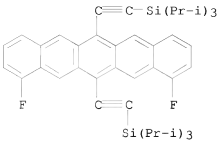
http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L2
L3 6 L2

=> D L3 IBIB ABS HITSTR 1-6

L3 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2009:18455 CAPLUS
TITLE: High performance organic thin-film transistors made simple through molecular design and processing
AUTHOR(S): Jurchescu, Oana D.; Feric, Marina; Hamadani, Behrang H.; Mourey, Devin A.; Subramanian, Sankar; Purushothaman, Balaji; Anthony, John E.; Jackson, Thomas N.; Gundlach, David J.
CORPORATE SOURCE: Semiconductors Electronics Division, National Institute of Standards and Technology, Gaithersburg, MD, USA
SOURCE: ECS Transactions (2008), 16(9), 283-289
CODEN: ECSTF8; ISSN: 1938-5862
PUBLISHER: Electrochemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB We report on a simple method of inducing self-insulation of the thin-film transistors via manipulation of the chemical interactions between the organic mols. and the surfaces where they are deposited. We use pentafluorobenzenethiol (PFBT) treatment of the contacts and investigate the thin film formation of different types of chemical compds. In particular, three similar organic mols.: triisopropyl-silylethynyl pentacene (TIPS pentacene), triisopropyl-silylethynyl peri-fluoro-pentacene (TIPS PFP) and triisopropyl-silylethynyl cata-fluoro-pentacene (TIPS CFP), were studied and compared to better understand how the mol., crystal structure and thin film formation influence the elec. behavior of devices fabricated with them. The mols. exhibit significantly different interactions with the chemical treated substrates. The field-effect mobilities of these devices are directly related to their thin film microstructure.
IT INDEXING IN PROGRESS
IT 854519-96-3
RL: NUU (Other use, unclassified); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(high performance organic thin-film transistors preparation using pentafluorobenzenethiol)
RN 854519-96-3 CAPLUS
CN Pentacene, 1,11-difluoro-6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

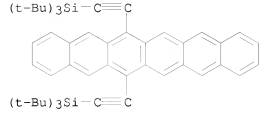
L3 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2007:324817 CAPLUS
DOCUMENT NUMBER: 148:226687
TITLE: Synthesis of functionalized hexacene for OTFT application
AUTHOR(S): Purushothaman, Balaji; Parkin, Sean R.; Anthony, John E.
CORPORATE SOURCE: Department of Chemistry, University of Kentucky, Lexington, KY, USA
SOURCE: PMSE Preprints (2007), 96, 718
CODEN: PPMRA9; ISSN: 1550-6703
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal; (computer optical disk)
LANGUAGE: English

AB Tricyclopentysilyl acetylene was made by a series of reaction starting from cyclopentyl bromide. The trimethylsilyl (TMS) protected alkyne was made from the silane via the formation of triflate using trifluoromethanesulfonic acid. TMS deprotection in-situ using methanol gave the terminal alkyne. Lithiation of the alkyne followed by the addition of the hexacene quinone gave the corresponding diol. The reaction was quenched with wet THF and the crude diol was obtained. Deoxygenation using stannous chloride and 10% hydrochloric acid gave the hexacene (3). Recrystn. from hexane gave thin plates which were subjected to single crystal X-ray crystallog. studies. Mass spectra anal. of 3 by MALDI - TOFMS showed M peak at 845 indicating the desired product. TCPS Hexacene mols. exhibit 2D π stacking in the solid state and is soluble in most solvents and exhibits a solubility of greater than 1 wt % in toluene. UV-vis absorbance spectra shows a long wavelength absorption at 733 nm characteristic of hexacene. To study the film forming properties of this derivative, a 1 wt% solution in toluene and cast films on glass which were previously cleaned in a solution of ammonium hydroxide and hydrogen peroxide was made. UV-vis spectra of thin film showed a significant red shift indicating increased conjugation due to improved π- stacking between the mols.

IT 856899-78-0
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(synthesis of functionalized hexacene for organic thin film transistor application)

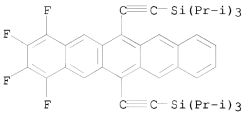
RN 856899-78-0 CAPLUS
CN Hexacene, 6,15-bis[2-[tris(1,1-dimethylethyl)silyl]ethynyl]- (CA INDEX

NAME)

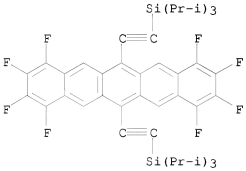


REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:562304 CAPLUS
DOCUMENT NUMBER: 143:152971
TITLE: Synthesis and Characterization of Electron-Deficient Pentacenes
AUTHOR(S): Swartz, Christopher R.; Parkin, Sean R.; Bullock, Joseph E.; Anthony, John E.; Mayer, Alex C.; Malliaras, George G.
CORPORATE SOURCE: Department of Chemistry, University of Kentucky, Lexington, KY, 40506-0055, USA
SOURCE: Organic Letters (2005), 7(15), 3163-3166
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:152971
AB Halogen functional groups on pentacene can be used both as synthetic handles for further functionalization as well as to tune the π-stacking in these systems. The halogenated pentacene derivs. described here (X = Br, X' = H, and X = X' = F) are all stable and soluble, with reduction potentials
significantly lower than that of the parent functionalized pentacene (X = X' = H). The bromopentacenes could be further elucidated to pentacene nitriles, further decreasing the acene's reduction potential, while the charge-carrier mobility in the fluorinated systems was shown to scale with the degree of fluorine substitution.
IT 859849-49-3P 859849-50-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and characterization of electron-deficient pentacenes)
RN 859849-49-3 CAPLUS
CN Pentacene, 1,2,3,4-tetrafluoro-6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



RN 859849-50-6 CAPLUS
CN Pentacene, 1,2,3,4,8,9,10,11-octafluoro-6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 74 THERE ARE 74 CAPLUS RECORDS THAT CITE THIS RECORD (75 CITINGS)
REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:523782 CAPLUS
DOCUMENT NUMBER: 143:69829
TITLE: Improvements in and relating to organic semiconducting layers
INVENTOR(S): Brown, Beverley Anne; Veres, Janos; Anemian, Remi Manouk; Williams, Richard Thomas; Ogier, Simon Dominic; Leeming, Stephen William
PATENT ASSIGNEE(S): Avecia Limited, UK
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005055248	A2	20050616	WO 2004-GB4973	20041125
WO 2005055248	A3	20050728		

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GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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EP 1687830 A2 20060809 EP 2004-819715 20041125
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EP 1783781 A2 20070509 EP 2007-2498 20041125
EP 1783781 A3 20071003
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EP 1808866 A1 20070718 EP 2007-4534 20041125
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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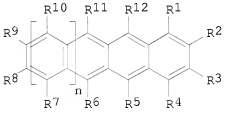
KR 2006110309 A 20061024 KR 2006-710374 20060526
US 20070102696 A1 20070510 US 2006-580552 20060526
US 20070137520 A1 20070621 US 2007-671877 20070206
US 20080009625 A1 20080110 US 2007-822594 20070709
US 7576208 B2 20090818
PRIORITY APPLN. INFO.: GB 2003-27654 A 20031128
GB 2004-7852 A 20040407
GB 2004-14347 A 20040626
EP 2004-819715 A3 20041125
WO 2004-GB4973 W 20041125
US 2006-580552 A3 20060526
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:69829
GI



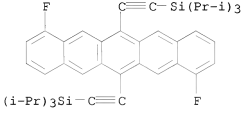
I

AB An organic semiconducting layer formulation (I), which comprises: an organic binder which has a permittivity, ε, at 1,000 Hz of 3.3 or less; and a polyacene compound of Formula: A: wherein: each of R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11 and R12, which may be the same or different, independently represents hydrogen; an optionally substituted C1-C40 carbyl or hydrocarbyl group; an optionally substituted C1-C40 alkoxy group; an optionally substituted C6-C40 aryloxy group; an optionally substituted C7-C40 alkylaryloxy group; an optionally substituted C2-C40 alkoxycarbonyl group; an optionally substituted C7-C40 aryloxycarbonyl group; a cyano group (-CN); a carbamoyl group (-C(= O)NH2); a haloformyl group (-C(=

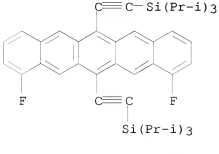
O)-X, wherein X represents a halogen atom); a formyl group (-C(= O)-H); an isocyano group; an isocyanate group; a thiocyanate group or a thioisocyanate group; an optionally substituted amino group; a hydroxy group. A nitro group; a CF3 group; a halo group (Cl, Br, F); or an optionally substituted silyl group; and wherein independently each pair of R2 and R3 and/or R8 and R9, may be cross-bridged to form a C4-C40 saturated or unsatd. ring, which saturated or unsatd. ring may be intervened by an oxygen atom, a sulfur atom or a group shown by formula -N(Ra)- (wherein Ra is a hydrogen atom or an optionally substituted hydrocarbon group), or may optionally be substituted; and wherein one or more of the carbon atoms of the polyacene skeleton may optionally be substituted by a heteroatom selected from N, P, As, O, S, Se and Te; and wherein independently any two or more of the substituents R1-R12 which are located on adjacent ring positions of the polyacene may, together, optionally constitute a further C4-C40 saturated or unsatd. ring optionally interrupted by O, S or -N(Ra) where Ra is as defined above or an aromatic ring system, fused to the polyacene; and wherein n is 0, 1, 2, 3 or 4, also claimed is an electronic device, particularly.

IT 854519-95-2 854519-96-3 854520-00-6
RL: DEV (Device component use); USES (Uses)
(improvements in and relating to organic semiconducting layers for organic FETs)

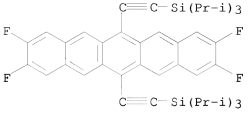
RN 854519-95-2 CAPLUS
CN Pentacene, 1,8-difluoro-6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



RN 854519-96-3 CAPLUS
CN Pentacene, 1,11-difluoro-6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)



RN 854520-00-6 CAPLUS
CN Pentacene, 2,3,9,10-tetrafluoro-6,13-bis[2-[tris(1-methylethyl)silyl]ethynyl]- (CA INDEX NAME)

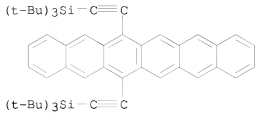


OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

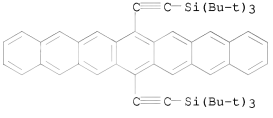
L3 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:414352 CAPLUS
DOCUMENT NUMBER: 143:96955
TITLE: Functionalized Higher Acenes: Hexacene and Heptacene
AUTHOR(S): Payne, Marcia M.; Parkin, Sean R.; Anthony, John E.
CORPORATE SOURCE: Department of Chemistry, University of Kentucky, Lexington, KY, 40506-0055, USA
SOURCE: Journal of the American Chemical Society (2005), 127(22), 8028-8029
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:96955
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB We have extended our functionalization strategy for pentacene to the higher acenes hexacene and heptacene (I,II). Provided a large enough alkyne substituent is used, these large aromatic rods are both stable and soluble and can be characterized spectroscopically as well as by single-crystal X-ray diffraction.
IT 856899-78-0P 856899-80-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(UV spectra and crystallog. of higher acenes hexacene and heptacene)
RN 856899-78-0 CAPLUS
CN Hexacene, 6,15-bis[2-[tris(1,1-dimethylethyl)silyl]ethynyl]- (CA INDEX NAME)

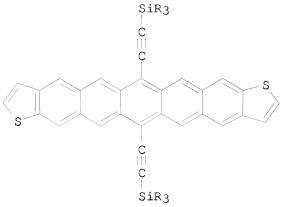


RN 856899-80-4 CAPLUS
CN Heptacene, 7,16-bis[2-[tris(1,1-dimethylethyl)silyl]ethynyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 79 THERE ARE 79 CAPLUS RECORDS THAT CITE THIS RECORD (80 CITINGS)
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2004:689010 CAPLUS
DOCUMENT NUMBER: 141:349987
TITLE: Stable, Crystalline Acenedithiophenes with up to Seven Linearly Fused Rings
AUTHOR(S): Payne, Marcia M.; Odom, Susan A.; Parkin, Sean R.; Anthony, John E.
CORPORATE SOURCE: Department of Chemistry, University of Kentucky, Lexington, KY, 40506-0055, USA
SOURCE: Organic Letters (2004), 6(19), 3325-3328
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:349987
GI



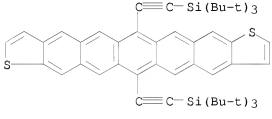
I

AB The synthesis of a series of crystalline acenedithiophenes, e.g. I (R = Me2CH, Me3C), with up to seven linearly fused rings and silylethynyl substituents is reported. These functional groups were designed to both improve solubility and enhance cofacial interactions in the solid. The crystal packing of the prepared materials, as well as their phys. properties such as oxidation potential, UV-vis absorption, fluorescence emission, and decomposition pathways were also discussed.

IT 775324-39-5P 775324-40-8P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, crystal structure, optical properties and oxidation potential of
linearly fused bis(silylethynyl) acenedithiophenes)

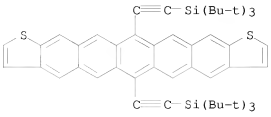
RN 775324-39-5 CAPLUS

CN Silane, (pentaceno[2,3-b:9,10-b']dithiophene-6,14-diyldi-2,1-ethynediyl)bis[tris(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



RN 775324-40-8 CAPLUS

CN Silane, (pentaceno[2,3-b:10,9-b']dithiophene-6,14-diyldi-2,1-ethynediyl)bis[tris(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



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